PHARMACY PRESCRIPTION PRACTICES (PPP)

TECHNICAL MANUAL

Version 1.0
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Department of Veterans Affairs
VIST**A** System Design & Development

Revision History

Any changes subsequent to the initial release of this manual are listed below. The users should update the manual with the pages listed under the Revised Pages column.

Date	Revised Pages	Patch Number	Description
08/2002	All		Document reformatted to meet national and local documentation standards. Revision History page added and blank pages for two-sided copying. Pages renumbered and Appendices moved to between Glossary and Index. No content changes were made except where noted under Patch PPP*1*35.
08/2002	Title Page; i-iii;1-(2); 5-6; 19-20; 23-30.	PPP*1*35	Replaced references to Minimal Patient Dataset (MPD) on CD-ROM with Master Patient Index/Patient Demographics (MPI/PD); Deleted or revised processes that previously utilized MPD; Removed references to QUME terminals; Updated online documentation source to VDL. Removed examples from Appendix B that related to MPD, and renumbered remaining examples.
04/1995			Original Released Technical Manual.

Preface

This technical manual is designed to provide necessary information for the technical operation of the Pharmacy Prescription Practices (PPP) software package. The technical manual is intended for use by technical computer personnel and not the typical end user within Department of Veterans Affairs (VA) medical facilities.

Table of Contents

1. Introduction

The Pharmacy Prescription Practices software consists of eleven menu options and one background task that is scheduled daily. Together, these provide the functionality necessary to alert pharmacy personnel to the existence of medications that may have been prescribed at other VA facilities. This software has been integrated with four packages to provide the following: a method of extracting pharmacy data from remote hospitals using the Patient Data Exchange (PDX) package; a history of patient visits from the Master Patient Index/Patient Demographics (MPI/PD) package; and information on local patients, including their scheduled clinic appointments and active pharmacy data, through the MAS (PIMS) and Pharmacy packages.

1.1. Menu Options

To the left of each option is the shortcut synonym you can use to quickly enter the option.

BFFX   Build/Rebuild Other Facility Xref [PPP BUILD FFX]
This option is a background task which builds a file containing station number, last date of visit at each facility, and other data for patients who have visited other VA facilities. The file is used to determine whether a PDX request is needed prior to a patient's clinic appointment and provides data for medications prescribed at the other facilities.

CONS   Add/Edit Merged Sites [PPP MERGED SITE EDIT]
This option allows consolidated sites to be added to the PPP CONVERSION SITE file (#1020.128), preventing multiple requests from being sent for the same patient.
NOTE: This option has not been assigned to a menu but should be assigned to the menu of the person responsible for this package.

DOME Edit Unresolved Domain Entries [PPP EDIT DOMAIN]
This option allows the user to change the domain name for all patients of a selected station who have visited other facilities when the domain remains unresolved after using the *Build/Rebuild Other Facility Xref* option.

FFXE   Edit Other Facility Cross-Reference [PPP EDIT FFX]
This option is used to add, edit, or delete the last date of visit and domain name of an entry in the PPP FOREIGN FACILITY XREF file (#1020.2).

FFXP   Print Other Facility Cross-Reference [PPP PRINT FFX]
This option allows the user to print a single report or a range of reports in the PPP FOREIGN FACILITY XREF file (#1020.2).

FORD Display Visits To Other Facilities [PPP DISPLAY FOREIGN VISITS]
This option allows the user to view or print all available data concerning visits to other facilities by a specified patient.

LPRG **Purge Log File [PPP PURGE LOGFILE MENU]**
This option scans the PPP LOG file (#1020.4) and deletes any records with an entry date older than the value stored in the PPP PARAMETER file (#1020.1).

PARM **Edit Parameter File [PPP (EDIT) PARAMETER]**
The PPP PARAMETER file (#1020.1) establishes the local operating parameters for the Pharmacy Prescription Practices package. This option is used to enter/edit the PPP parameters.

PLOG **Print Log File [PPP PRINT LOG]**
The *Print Log File* option is used to print the entries from the PPP LOG file (#1020.4). The PPP LOG file (#1020.4) contains all significant events and error conditions encountered while running the Pharmacy Prescription Practices software.

STAI **Initialize Statistic File [PPP INIT STAT]**
This option resets all of the values in the PPP STATISTIC file (# 1020.3) to zero.

STAP **Print Statistic File [PPP PRINT STATISTICS]**
This option is used to print the contents of the PPP STATISTIC file (# 1020.3).

XPRG **Purge Other Facility Xref [PPP XREF PURGE]**
This option scans the PPP FOREIGN FACILITY XREF file (#1020.2) and deletes any records with a last date of visit older than the value stored in the PPP PARAMETER file (#1020.1).

1.2. Related Manuals

Related manuals include the Pharmacy Prescription Practices User Manual, Package Security Guide, and Installation Guide.

2. Orientation

The PPP Technical Manual has been divided into major sections for easy use and is intended to be a reference document. While you are free to review the entire document, it is best used by selecting specific sections that contain the information sought for a particular need.

3. General Information

3.1. Package Security

Information concerning package security may be found in the PPP V. 1.0 Package Security Guide.

3.2. Resource Requirements

Approximate number of routines:	60
Number of globals:	1 (^PPP)
Number of files:	8 (1020.1 - 1020.8)

Approximate size of ^PPP:	63 x Patients (in bytes)
Approximate increase in ^VAT:	10,240 x Patients (in bytes)
Approximate increase in ^XMB:	42 x Patients (in bytes)
Approximate increase in network traffic:	12 x Patients (in bytes/days)

Anticipated FTEE for support:	.1
Anticipated FTEE for maintenance:	.2

A facility with a 60,000 patient database would see the following impact given 10 percent of the population is mobile.

Size of ^PPP:	63 x 6,000 = 3.78 Kb
Increase in ^VAT:	10,240 x 6,000 = 61.4 megabytes
Increase in ^XMB:	42 x 6,000 = 2.52 Kb
Total increase disk capacity:	62 megabytes
Increase in network traffic:	12 x 6,000 = 7.2Kb/days

NOTE: Global Growth can be controlled by the purge features of PPP and PDX.
Sites will see an increase in IDCU traffic.

3.3. Integrity Checker

The PPPNTEG routine checks integrity for other PPP routines. This was built using the KERNEL utility routine, XTSUMBLD.

4. Implementation and Maintenance

The Pharmacy Prescription Practices package may be tailored specifically to meet the needs of the various sites. All site specific parameters can be established through the *Edit Parameter File* option of the PPP menu. While most of the options are available as menu options, a few are either integrated with the Pharmacy routines or designed to be run as background jobs.

1. The *Build/Rebuild Other Facility Xref* option should be scheduled to run every month over a weekend when system activity is low.

2. The New Patient, Clinic Scan, and the Prescription Practices Medication Profile Print modules should be scheduled to run nightly (via TaskMan) through the Prescription Practices Daily Batch Routine [PPP BATCH]. For convenience, these routines are callable from the single routine PPPBTCH.

3. The Foreign Medication Alert is integrated with the Pharmacy routines and is automatically invoked whenever a prescription is filled or refilled for a patient with foreign medication data on file.

4. The Prescription Practices Daily Batch Routine [PPP BATCH] consists of five subroutines scheduled to run each night. They provide the following functionality.

   PREVIOUS PDX RESULT SCAN
   The Previous PDX Result Scan subroutine checks the status of all PDX requests made during the previous Daily Batch. A MailMan message is sent to the PRESCRIPTION PRACTICES mail group in the event that a status code is found which indicates that the PDX data was not returned from the remote station. In this event, you will need to contact the remote station to determine why the data was not returned and manually request another PDX if appropriate.

CLINIC/FOREIGN FACILITY SCAN

The Clinic/Foreign Facility Scan subroutine scans both the HOSPITAL LOCATION file (#44) and the PATIENT file (#2) for patients who have clinic appointments scheduled a predetermined number of days in advance. It saves the SSNs for those patients in a temporary file. This temporary file of SSNs is then compared to the patients in the PPP FOREIGN FACILITY XREF file (#1020.2). Under normal conditions, a PDX request is made to all facilities for each patient found in both files. These PDX requests may be blocked if

- the last PDX request was unsuccessful (rejected by site, patient not found, etc.),
- the remote station is in the PPP EXCLUSION file (#1020.5),
- there is already valid PDX data on file.

NEW PATIENT UPDATE

The New Patient Update subroutine checks the PPP NEW SSN file (#1020.7) each day for

- new patients added to the PATIENT file (#2),
- manually added SSNs,
- processing errors during MPI requests.

It then performs an MPI search for any SSNs found. If any new patients have been seen at other facilities, the PPP FOREIGN FACILITY XREF file (#1020.2) will be updated with the new data. As with the Build/Rebuild Other Facility Xref utility, any errors encountered during the New Patient Update process are reported via electronic mail to the Prescription Practices mail group.

PRESCRIPTION PRACTICES MEDICATION PROFILE PRINT

The Prescription Practices Medication Profile Print subroutine provides a listing of local and foreign prescriptions issued to patients scheduled for clinic on a selected day. This print module may be selectively run for all patients or for only those patients with foreign prescriptions. These parameters are determined by entries in the PPP PARAMETER file (#1020.1).

FOREIGN MEDICATION ALERT

The Foreign Medication Alert subroutine indicates that the patient has received medication at another facility. This subroutine has been integrated with both the *Outpatient Pharmacy New Prescription Entry* and *Refill Prescriptions* options. You are given the option of viewing a Consolidated Foreign Medication profile and/or queuing it to a printer.

For further instructions on implementation of this package, please refer to the PPP Installation Guide.

5. Routines

Per VHA Directive 10-93-142 regarding security of software, the PPP routines may not be modified due to the high level of package integration.

5.1. Callable Routines

Function Name:	PDXTRIG
Routine:	PPPFMX2
Description:	Set/Kill logic for PDX trigger.
Sample Call:	D PDXTRIG^PPPFMX2(transaction ptr,mode)
Parameters:	transaction ptr pointer to VAQ - TRANSACTION file (#394.61)
	mode 1 = set (default) 0 = kill
Returns:	None

Function Name:	PDA
Routine:	PPPPDA1
Description:	This function determines if the patient has been to other hospitals and whether there is any prescription information in the PDX data file for the patient. If there is data, the user is given the option to view it.
Sample Call:	S ERR = $$PDA^PPPPDA1(patient DFN)
Parameters:	patient DFN pointer to PATIENT file (#2)
Returns:	ERR = 0 normal termination
	ERR <0 Error Code

Function Name:	PLP
Routine:	PPPPRT9
Description:	Prints the medication profile.
Sample Call:	D PLP^PPPPRT9(patient DFN)
Parameters:	patient DFN pointer to PATIENT file (#2)
Returns:	medication profile

Callable Routines, cont.

Function Name:	GETVIS
Routine:	PPPGET7
Description:	This function builds an array with the patient visit information that can be reprinted or displayed to the user. It returns a 1 if there is pharmacy data available from any of the facilities or a zero if not.
Sample Call:	I $$GETVIS^PPPGET7(patient DFN,tarry)
Parameters:	patient DFN pointer to PATIENT file (#2)
	tarry the array root for returned data (full global reference)
Returns:	0 no pharmacy data available
	1 pharmacy data available

@tarry@(station name,0) = data available^PDX data file
  IFN^station number
@tarry@(station name,1) = patient name^date of birth
@tarry@(station name,2) = station name^last PDX date^last
  PDX status^pharmacy data available

5.2. Routines to Map

There are no routines to map for the PPP package.

5.3. Routine List with Descriptions

PPPBLD1, PPPBLD1A	Builds FFX
PPPBLD2, PPPBLD3	Builds FF, adds error to error list
PPPBLD4, PPPBLD5	Add new patient to FFX
PPPBTCH	Daily Batch job for PPP
PPPCHK1	Patient file check routine
PPPCNV1	Converts dates/times to various formats
PPPDSP1	Display banner, FFX entry
PPPDSP2	Display foreign location, is PDX Pharmacy available
PPPDSP3	Display medication profile
PPPDSP4	Display other facilities

Routine List with Descriptions, cont.

PPPEDT1	Edit an FFX entry
PPPEDT12	Edit an FFX entry, list processor driver
PPPEDT13	Expand FFX entry
PPPEDT14	Add new FFX entry
PPPEDT15	Edit an FFX entry
PPPEDT16	Delete an FFX entry
PPPEDT20, PPPEDT21, PPPEDT22	Edit blank domain routines
PPPFMA1	Foreign Medication Alert (test) routine
PPPFMX, PPPFMX1, PPPFMX2	FileMan utilities for PPP
PPPGET1	Various functions used to get data
PPPGET2	Gets the PDX data and puts it into an array
PPPGET3, PPPGET5	Miscellaneous get functions
PPPGET6	Get response
PPPGET7	Get other facility visit information
PPPGET8	Get local pharmacy data
PPPHLP01	Help messages
PPPIN*	Init routines
PPPINITY	Sends install messages
PPPMSC1	Miscellaneous PPP functions (log event, update stats)
PPPNTEG	Integrity values
PPPON001, PPPON002 PPPONIT, PPPONIT1 PPPONIT2, PPPONIT3	Onits
PPPPDA1	Data alert routine
PPPPDX1	Sends PDX request
PPPPDX2, PPPPDX3	Called by PDX trigger to lookup or create an entry in the FFX cross-reference

Routine List with Descriptions, cont.

PPPPRT1	Print foreign profile
PPPPRT2	Clinical medication print profile
PPPPRT3	Print stats
PPPPRT4	Sorts FFX by name or station
PPPPRT8	Entry point for pharmacy
PPPPRT9	Med profile print
PPPPRT10, PPPPRT11	Print Log
PPPPRT20	FFX Report by Name
PPPPRT21	FFX Report by Station
PPPPRT22	FFX Report Station Histogram
PPPPRT23	FFX Visit Histogram
PPPPRT24	FFX Summary Histogram
PPPPRT25	FFX Report Menu Driver
PPPPRT29	FFX Generic Display
PPPPSL, PPPPSL1	List template exporter
PPPPURG	Purge log file
PPPSCN1	Scans the FFX file for bad PDX results
PPPSCN2	Clinic scan routine
PPPUTL1	Generic utilities
PPPVPP	Environment check for PPP
PPPVPPIN	Pre-init code for PPP
PPPXL	Generated from PPP LOGP print template (File #1020.4)
PPPXS	Generated from PPPSTAP print template (File #1020.3)

5.4. Post Init Routines

PPPST01	Post init driver
PPPST04	File initialization
PPPST08	Set up mail groups/add members
PPPST09	Sets trigger in foreign file

6. Files

Per VHA Directive 10-93-142 regarding security of software, the PPP Data Dictionaries may not be modified due to the high level of package integration.

6.1. File List with Descriptions

File #	File Name	Global	File Description
1020.1	PPP PARAMETER	^PPP(1020.1,	This file contains the site specific information concerning the use of PPP. **Only one entry per facility is allowed.**
1020.2	PPP FOREIGN FACILITY XREF	^PPP(1020.2,	This file contains a pointer to the PATIENT file (#2), last date of visit at each facility, and other data for patients who have visited other VA facilities. This file is created every time a new MPD CD-ROM is generated. The file excludes the local facility data and contains approximately ten percent of the VA patient population.
1020.3	PPP STATISTIC	^PPP(1020.3,	This file is used to maintain operational statistics on the use of the software.
1020.4	PPP LOG	^PPP(1020.4,	This file is used to log all significant events and error conditions encountered while running the software.
1020.5	PPP EXCLUSION	^PPP(1020.5,	This file is used to list any station number that should be excluded from the PDX request via the software.
1020.6**	PPP CODE	^PPP(1020.6,	This file contains the list of codes and their description used in the PPP LOG file (#1020.4).
1020.7	PPP NEW SSN	^PPP(1020.7,	This file contains the SSNs that have been recently added to the PATIENT file (#2).
1020.8	PPP DOMAIN XREF	^PPP(1020.8,	This is a file of domains by station number.

** File contains data that will overwrite existing data, if so specified.

6.2. Templates

File #	Template	Type	Description
1020.1	PPP EDIT FILE	Input	Enter PPP PARAMETER file (#1020.1) data.
1020.3	PPPSTAP	Print	Prints values in PPP STATISTIC file (# 1020.3).
1020.4	PPP LOGP	Print	Prints error condition with description, entered into PPP LOG file (#1020.4) (formatted).
	PPP LOG	Print	Prints error condition with description, entered in PPP LOG file (#1020.4) (unformatted).
	PPP LOGS	Sort	Sorts by date entered into PPP LOG file (#1020.4) .
1020.6	PPP CODE LIST	Print	Prints the codes and associated description in PPP CODE file (#1020.6).

6.3. File Flow Chart

FILE # AND NAME	POINTS TO	POINTED TO BY
1020.1 PPP PARAMETER	4	INSTITUTION
1020.2 PPP FOREIGN FACILITY XREF	2 4 4.2 394.61 394.85	PATIENT INSTITUTION DOMAIN VAQ - TRANSACTION VAQ - STATUS
1020.3 PPP STATISTIC		
1020.4 PPP LOG	200 1020.6	NEW PERSON PPP CODE
1020.5 PPP EXCLUSION	4 200	INSTITUTION NEW PERSON
1020.6 PPP CODE		1020.4 PPP LOG
1020.7 PPP NEW SSN		
1020.8 PPP DOMAIN XREF	4 200	INSTITUTION NEW PERSON

7. Exported Options

7.1. Menu Diagram

```
Prescription Practices Utilities (PPP MAIN)
|
|
-BFFX Build/Rebuild Other Facility Xref
      [PPP BUILD FFX]
      **LOCKED: PPP UTIL**

-DOME Edit Unresolved Domain Entries
      [PPP EDIT DOMAIN]
      **LOCKED: PPP UTIL**

-FFXE Edit other Facility Cross-Reference
      [PPP EDIT FFX]
      **LOCKED: PPP UTIL**

-FFXP Print Other Facility Cross-Reference
      [PPP PRINT FFX]
      **LOCKED: PPP UTIL**

-FORD Display Visits to other Facilities
      [PPP DISPLAY FOREIGN VISITS]

-LPRG Purge Log File
      [PPP PURGE LOGFILE]
      **LOCKED: PPP UTIL**

-PARM Edit Parameter File
      [PPP (EDIT) PARAMETER]
      **LOCKED: PPP UTIL**

-PLOG Print Log File
      [PPP PRINT LOG]
      **LOCKED: PPP UTIL**

-STAI Initialize Statistic File
      [PPP INIT STAT]
      **LOCKED: PPP UTIL**

-STAP Print Statistic File
      [PPP PRINT STATISTICS]
      **LOCKED: PPP UTIL**

-XPRG Purge Other Facility Xref
      [PPP XREF PURGE]
      **LOCKED: PPP UTIL**
```

7.2. Options without Parents

Prescription Practices Daily Batch Routine   [PPP BATCH]
This option is designed to be run as a background job on a daily basis.

Print Clinic Medication Profiles   [PPP PRINT CLINIC PROFILES]
This option will be integrated into the pharmacy routines and will be invoked whenever a prescription is filled or refilled for a patient with foreign medication data.

8. Archiving and Purging

Archiving

There are no archiving capabilities in the PPP package.

Purging

PPP LOG file (#1020.4)

The PPP LOG file (#1020.4) maintains a chronological history of all important events that occur while running the Pharmacy Prescription Practices software. For each event, the date, time, user, and routine are stored, along with a description of the event. The *Purge Log File* option will scan the PPP LOG file (#1020.4) and delete any records with an entry date older than the value stored in the LOGFILE RETENTION DAYS field (#10) in the PPP PARAMETER file (#1020.1).

The PPP LOG file (#1020.4) should be purged at least every 30 days, as it tends to grow rapidly. If you use the *Purge Log File* option, your monitor will be locked until the purge is completed. To avoid this, you may wish to schedule this as a background task via TaskMan to run after normal hours.

PPP FOREIGN FACILITY XREF file (#1020.2)

The *Purge Other Facility Xref* option will scan the PPP FOREIGN FACILITY XREF file (#1020.2) and delete any records with a last date of visit older than the value stored in the XREF RETENTION DAYS field (#11) of the PPP PARAMETER file (#1020.1).

The PPP FOREIGN FACILITY XREF file (#1020.2) should be purged each time the *Build/Rebuild Other Facility Xref* option is run. If you use the *Purge Other Facility Xref* option, your monitor will be locked until the purge is completed. This purge may also be scheduled to run as a background task after normal hours via TaskMan.

9. Internal/External Relations

Internal Relations

All of the PPP V. 1.0 package options have been designed to run stand alone.

External Relations

1. The following packages need to be installed on your system prior to installing PPP V. 1.0.

Kernel	V. 7.1
Kernel Tool Kit	V. 7.2
VA FileMan	V. 20.0
VA MailMan	V. 7.0
PIMS	V. 5.3
List Manager	V. 1.0
Outpatient Pharmacy	V. 6.0
PDX	V. 1.5
MPD	V. 1.0

2. PPP has requested integration agreements with the following packages, and they have been approved.

   A. Patient Data Exchange (DBIA#s 439-445)
      PDX provides PPP with the following:
      - an xref to update PPP that PDX information has returned
      - direct read access to the ^VAT global 394.61 to verify PDX transaction
      - direct read access to the ^VAT global 394.62 to extract segment data
      - direct read access to the ^VAT global 394.71 to extract segment pointer
      - direct read access to the ^VAT global 394.85 to extract PDX status
      - direct read/write access to the ^VAT global 394.61 used by PPP cross-reference
      - API for requesting a PDX
      - API for extracting PDX data

      PPP provides PDX with the following:
      - API for the set/kill logic in PDX trigger

External Relations, cont.

B. Pharmacy (DBIA#s 1079-1086)
   Pharmacy provides PPP with the following:
   - direct read access to the ^PSRX global used to extract RX data
   - direct read access to the ^PS global 55 to find RX numbers
   - calls in the following five pharmacy routines to display the foreign medication alert
     PSOBBC   PSONUM   PSOPRF   PSORX   PSOSD

   PPP provides Pharmacy with the following:
   - API for pharmacy data alert routine
   - API for medication profile print routine
   - API for foreign pharmacy data extraction routine

C. PIMS (DBIA# 350)
   PIMS provides PPP with the following:
   - direct read access to the ^DPT global used to verify patient
   - an xref to notify PPP of a new patient in database

D. Scheduling (DBIA# 335)
   Scheduling provides PDX with the following:
   - direct read access to the ^SC global used to check for patients scheduled for a clinic on a specified date

10. Package-wide Variables

There are no package-wide variables in the Pharmacy Prescription Practices package.

10.1. SACC Exemptions/Non-Standard Code

There are no SACC exemptions/non-standard code connected with the PPP package.

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11. How to Generate On-Line Documentation

This section describes some of the various methods by which users may secure PPP technical documentation. On-line technical documentation pertaining to the PPP software, in addition to that located in the help prompts, may be generated through utilization of several Kernel options. These include %INDEX and VA FileMan List File Attributes. Further information about other utilities that supply on-line technical documentation may be found in Kernel and FileMan manuals located on the V*IST*A Documentation Library (VDL) at http://vista.med.va.gov/vdl/.

%Index
This option analyzes the structure of a routine(s) to determine in part if the routine(s) adheres to DHCP Programming Standards. The %INDEX output may include the following components: compiled list of errors and warnings, routine listing, local variables, global variables, naked globals, label references, and external references. By running %INDEX for a specified set of routines, the user is afforded the opportunity to discover any deviations from DHCP Programming Standards which exist in the selected routine(s) and to see how routines interact with one another, that is, which routines call or are called by other routines.

To run %INDEX for the PPP package, specify the following namespace at the "routine(s) ?>" prompt: PPP. PPP initialization routines which reside in the UCI in which %INDEX is being run, as well as local routines found within the PPP namespace, should be omitted at the "routine(s)?>" prompt. To omit routines from selection, preface the namespace with a minus sign (-).

List File Attributes
This VA FileMan option allows the user to generate documentation pertaining to files and file structure. Utilization of this option via the "Standard" format will yield the following data dictionary information for a specified file(s): file name and description, identifiers, cross-references, files pointed to by the file specified, files which point to the file specified, input templates, print templates, and sort templates. In addition, the following applicable data is supplied for each field in the file: field name, number, title, global location, description, help prompt, cross-reference(s), input transform, date last edited, and notes.

Using the "Global Map" format of this option generates an output which lists all cross-references for the file selected, global location of each field in the file, input templates, print templates, and sort templates. For a comprehensive listing of PPP files, please refer to the Files section of this manual.

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Glossary

Domain   A facility's electronic mail address.

Foreign Medication Alert   An indication that a patient has received medications
                                at another VA medical center.

Histogram   A representation of frequency distribution by means of
                                rectangles whose widths represent class intervals and
                                whose areas are proportional to the corresponding
                                frequencies.

MPI/PD   Master Patient Index/Patient Demographics

PDX   Patient Data Exchange

PDX request   Asking for an exchange of patient data between VA
                                facilities using the MailMan electronic mail utility.

PPP   Pharmacy Prescription Practices

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Appendix A - PPP CODE File (#1020.6) Codes and Descriptions

Code #	Description
9999	UNKNOWN CODE
1025	RESTART BUILD OF FFX
1024	PPPBTCH COMPLETED
1023	PPPBTCH STARTED
1022	XREF PURGE COMPLETE
1021	XREF PURGE BEGIN
1020	LOGFILE PURGE COMPLETE
1019	LOGFILE PURGE BEGIN
1018	FFX PRINT ENDED
1017	FFX PRINT STARTED
1016	NO PRINT FLAG SET
1015	CLINIC PRINT STOP
1014	CLINIC PRINT START
1013	FFX BUILD COMPLETED
1012	FFX BUILD STARTED
1011	ALERT ISSUED
1010	ALERT IGNORED
1009	PDX SCAN ENDED
1008	PDX SCAN STARTED
1007	CLINIC SCAN ENDED
1006	CLINIC SCAN STARTED
1005	END XREF SCAN
1004	START XREF SCAN
1003	ENTRY DELETED
1002	EXISTING ENTRY EDITED
1001	MANUAL ENTRY ADDED TO FFX
-1001	USER ABORT
-9001	INPUT PARAMETER ERROR
-9002	FILEMAN ERROR
-9003	LOOKUP ERROR
-9004	FILE LOCKED BY ANOTHER USER
-9006	DATE/TIME CONVERSION ERROR
-9007	PARAMETER FILE ERROR
-9009	ROUTINE NOT FOUND
-9010	PDX EXTRACT ERROR
-9011	DEVICE OPEN ERROR
-9012	COULD NOT FIND UCI
-9013	COULD NOT FIND STATION NUMBER IN PARAMETER FILE
-9014	MPD FAILED TO START
-9015	MPD DATA ERROR
-9016	MAIL GROUP ERROR
-9017	NO SSNs IN LIST
-9018	MPD STATUS ERROR
-9019	TIMEOUT ERROR

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Appendix B - Explanation of Common PPP Mail Messages

Below is a list of the possible mail messages generated from running the Pharmacy Prescription Practices software. Each example contains a description of what is being reported and what corrective action, if any, needs to be taken. All messages listed are delivered to members of the PRESCRIPTION PRACTICES mail group.

A.
```
Subj: PPP - Nightly PDX Result Scan
From: PRESCRIPTION PRACTICES
------------------------------------------------------------------------

Last Batch Request Date Not Found
```

This message is generated by the PPP software when it cannot find the last PDX batch date in the PPP PARAMETER file (#1020.1). This error can be resolved by entering the LAST PDX BATCH DATE into the PPP PARAMETER file (#1020.1) through *the Edit Parameter File [PPP (EDIT) PARAMETER]* option.

B.
```
Subj: PPP - Nightly PDX Result Scan
From: PRESCRIPTION PRACTICES
-------------------------------------------------------------------------

The following status were found while running XREFSCAN for last PDX batch
dated: 03-02-1995

PDX Status For MASON,EDWARD P at VAMC TUCSON, AZ is: NOTHING RETURNED
PDX Status For MACELVOY,JOHN F at VAMC CANANDAIGUA, NY is: NOTHING
RETURNED
PDX Status For BOXTON,MARILYN J at VAMC BROCKTON, MA is: Request waiting
for processing
PDX Status For COMMER,JOHN A at VAMC CANANDAIGUA, NY is: NOTHING RETURNED
PDX Status For PETERS,RODERICK I at VAMC BIRMINGHAM, AL is: Request
waiting for processing
PDX Status For PETERS,RODERICK I at VAMC TUSCALOOSA, AL is: Request
waiting for processing
PDX Status For GULLICKSON,MICHAEL E at VAMC LOS ANGELES (Wadsworth) is:
Request has been sent
PDX Status For WARNER,DAVID ALLEN at VAMC CANANDAIGUA, NY is: NOTHING
RETURNED
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This message is generated by the PPP software to notify the users in the PRESCRIPTION PRACTICES mail group that not all the prior day's PDX requests have been returned with results. Had all the prior day's PDX requests been returned with results, this message would not have been generated. It should be noted that these statuses do not necessarily represent errors, but convey the current status of the PDX request. The following is an explanation of the possible statuses.

Status	Description
Nothing Returned	No data will ever be returned
Patient was ambiguous	Could not accurately determine patient from information provided
Patient was not found	Could not find patient
Requires processing	Request requires manual processing
Information not returned	Requested information not returned
Request waiting for processing	Request requires manual processing at receiving site
Request has been sent	Request sent to site
Results received	Data returned to requesting site
Retransmitting	Request to retransmit message using prior version
Unsolicited has been sent	Unsolicited PDX sent
Unsolicited sent/received	Acknowledgment of unsolicited PDX received
Unsolicited PDX	Unsolicited PDX received

C.
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Subj: PPP DAILY BATCH 03/03/1995
From: PRESCRIPTION PRACTICES
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No Errors occurred while attempting to send PDXs

The following PDX request were generated by PPP on 03/03/1995

NAME                      SSN               STATION
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NEBRASKA,NICK             248987260         VAMC ALBUQUERQUE, NM
ARKANSAS,MARY             100081270         VAMC BAY PINES, FL
ARIZONA,ALICE             065327760         VAMC CANANDAIGUA, NY
COLORADO,ALBERT           092299756         VAMC RENO, NV
KENTUCKY,KENNETH          106789267         VAMC COATESVILLE, PA
INDIANA,SUSAN             062776619         VAMC BAY PINES, FL
VIRGINIA,SAMUEL           290908770         VAMC BATAVIA, NY
KANSAS,THOMAS             163327979         VAMC ERIE, PA
CALIFORNIA,JAMES          233567211         VAMC BECKLEY, WV
MARYLAND,MARK             264000921         VAMC MIAMI, FL
PENNSYLVANIA,PHILIP       723555716         VAMC CANANDAIGUA, NY
IOWA,LUKE                 099111205         VAMC BAY PINES, FL
ALABAMA,CHRISTOPHER P     130222638         VAMC CANANDAIGUA, NY
OREGON,ROBERT             089777617         VAMC LOS ANGELES (Wadsworth)
MONTANA,(UTAH)JOHNNY      161809257         VAMC ERIE, PA
MAINE,JOE                 266789069         VAMC TAMPA, FL
MICHIGAN,MATTHEW RYAN     055954965         VAMC BATAVIA, NY
MICHIGAN,MATTHEW RYAN     055954965         VAMC SEATTLE, WA
ILLINOIS,ANNE ELIZABETH   100343521         VAMC CANANDAIGUA, NY
ILLINOIS,ANNE ELIZABETH   100343521         VAMC NORTHPORT, NY
OHIO,RAYMOND              102008229         VAMC BATH, NY
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The PPP software generates this message on a nightly basis. It displays all the PDXs generated (if any) and reports any problems in creating those PDXs. The message can be used as an audit to determine from where PDX information is being requested and for whom.

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